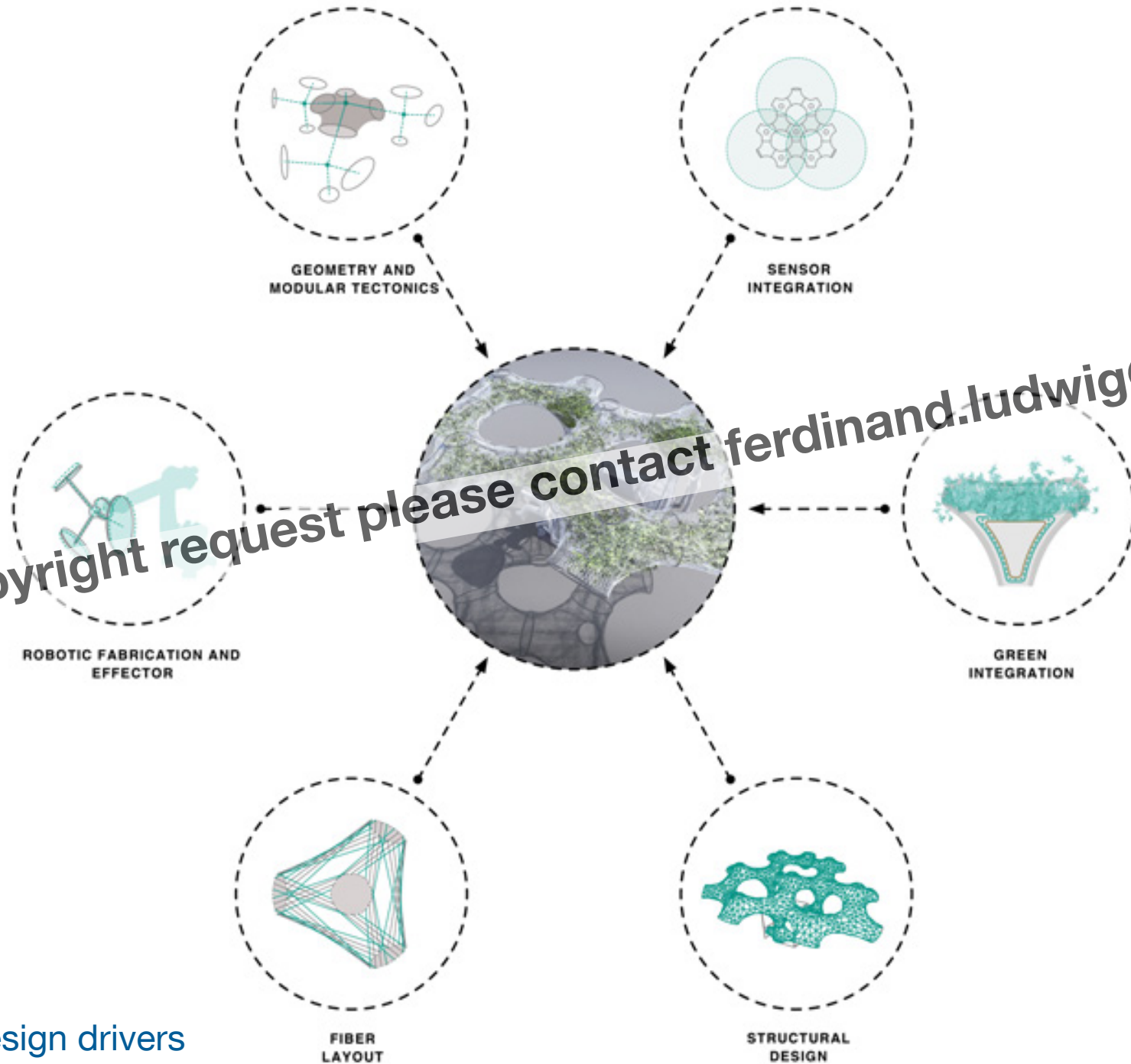


# Urban Micro Climate Canopy

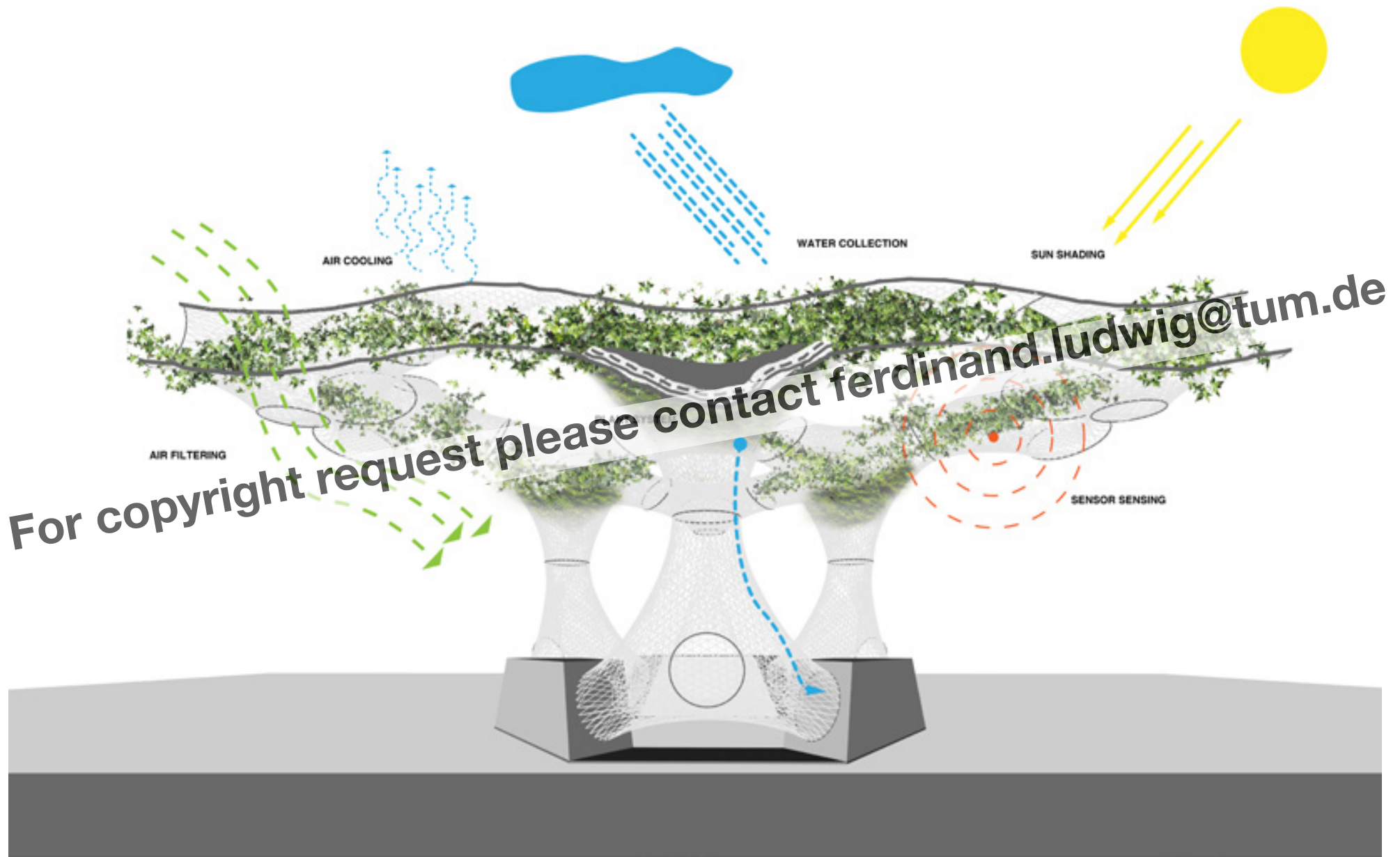
Professur für Green Technologies in Landscape Architecture (TUM)  
Lehrstuhl für Gebäudetechnologie und klimagerechtes Bauen (TUM)  
FibR GmbH Stuttgart

- CONCEPT AND PRODUCTION IMAGES -

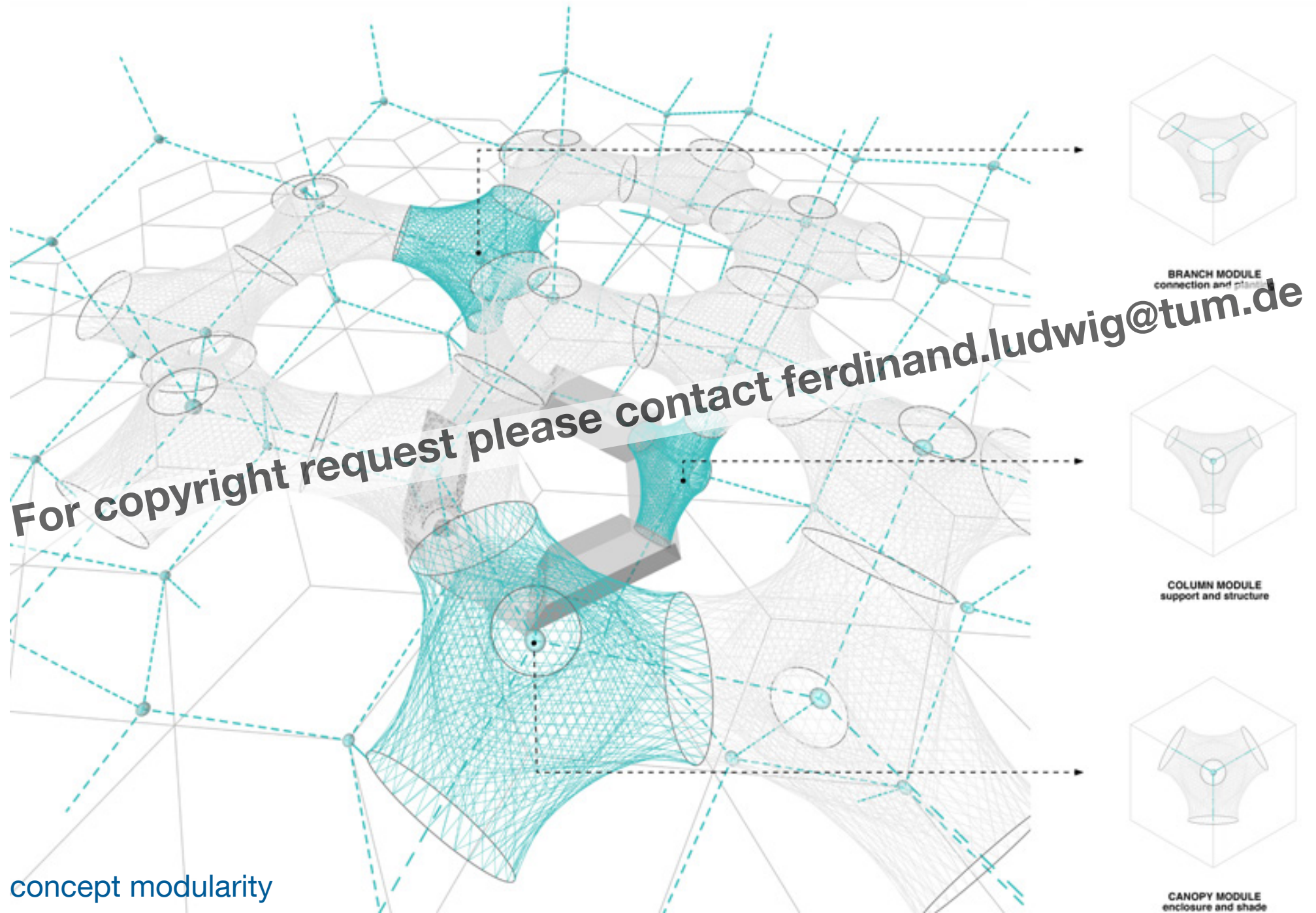
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concept design drivers



concept functional integration



concept modularity

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concept module



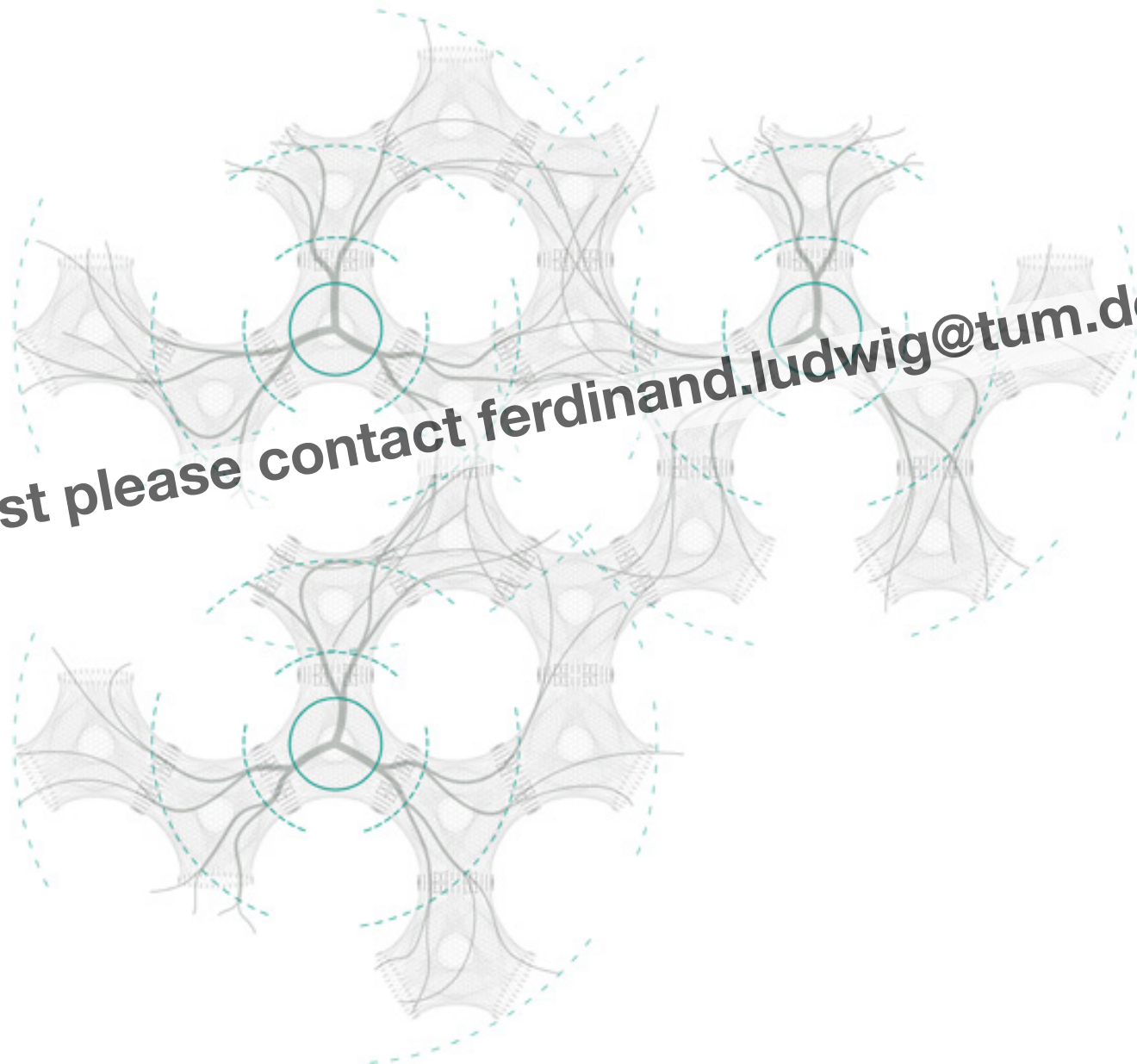
SHADING AND COOLING:  
climbing plants



AIR CLEANING AND FILTRATION:  
moss



BIODIVERSITY IN DENSE URBAN AREAS:  
habitat for multiple species



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concept plant integration



TEMPERATURE SENSOR



HUMIDITY SENSOR



CO2 SENSOR

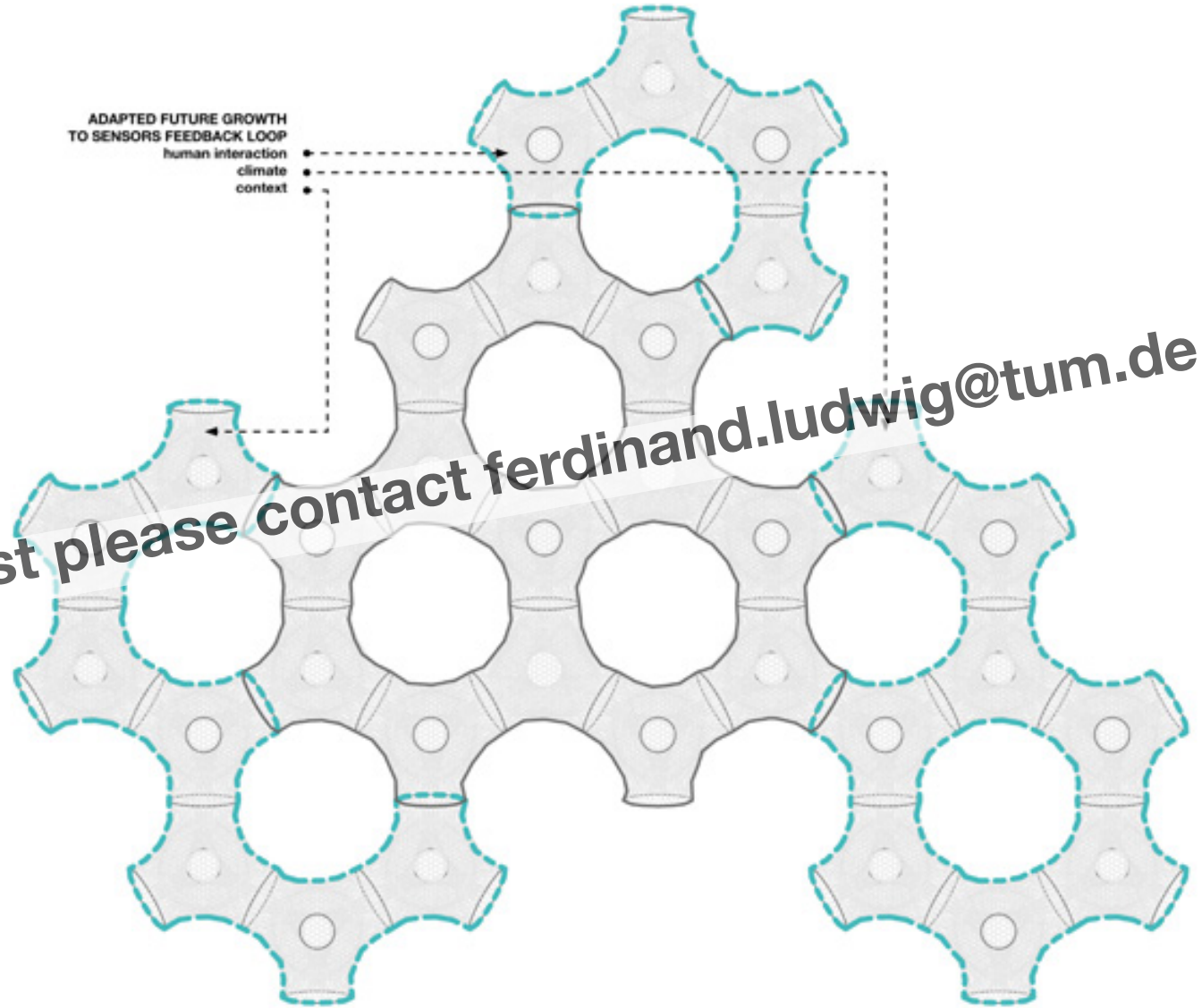


MODCAM

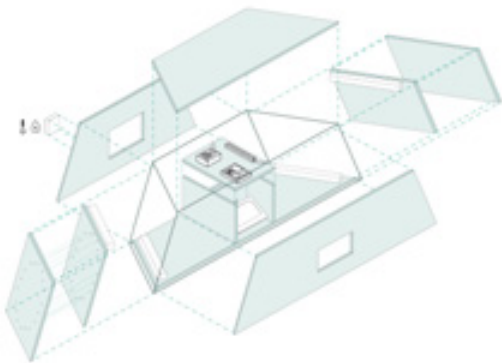


WI-FI CONNECTION

ADAPTED FUTURE GROWTH  
TO SENSORS FEEDBACK LOOP  
human interaction  
climate  
context

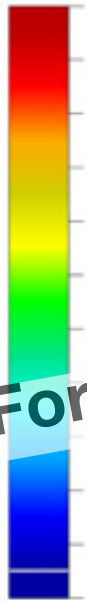


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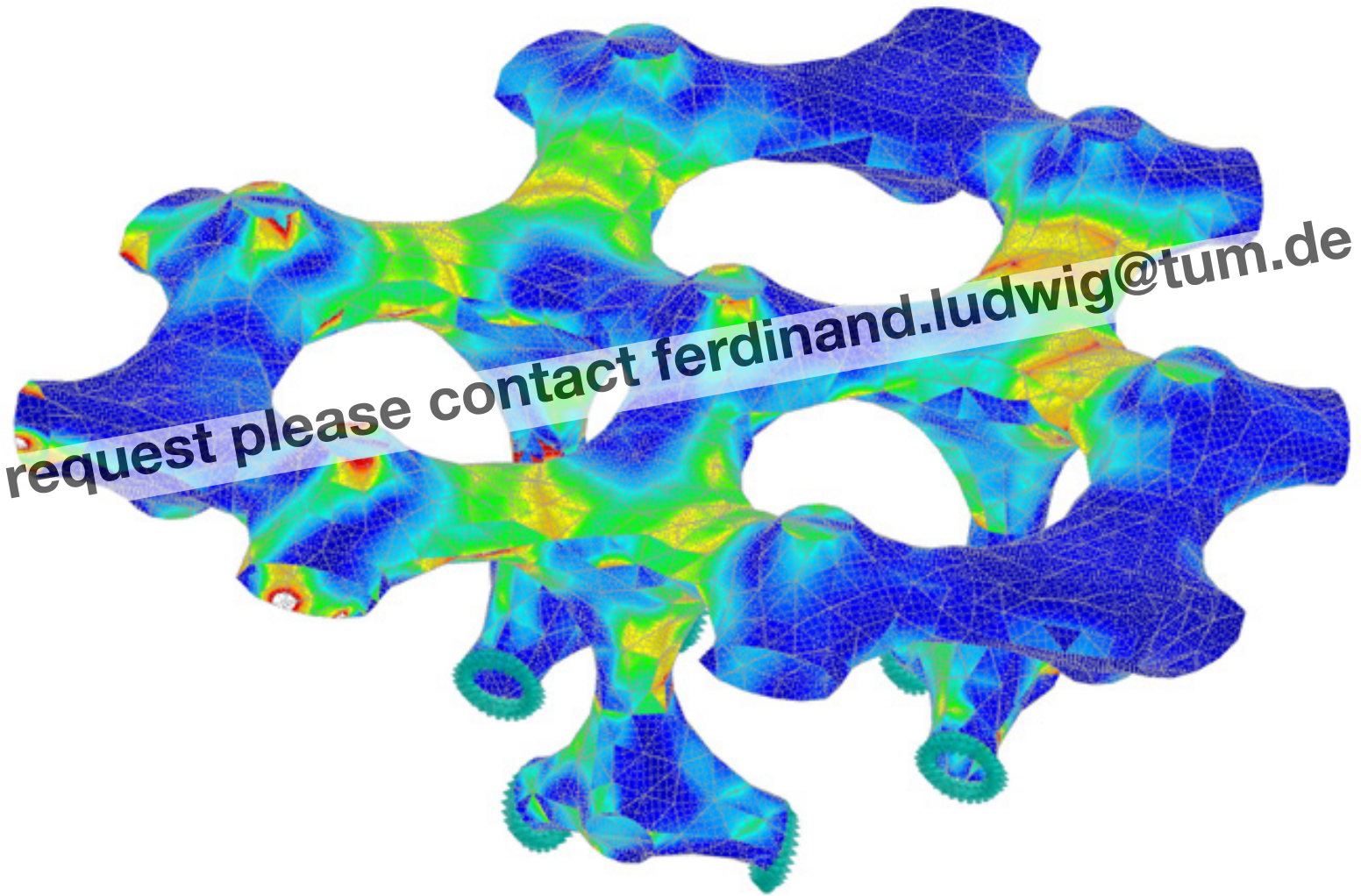
concept sensor integration

$m_1$  [kNm/m]



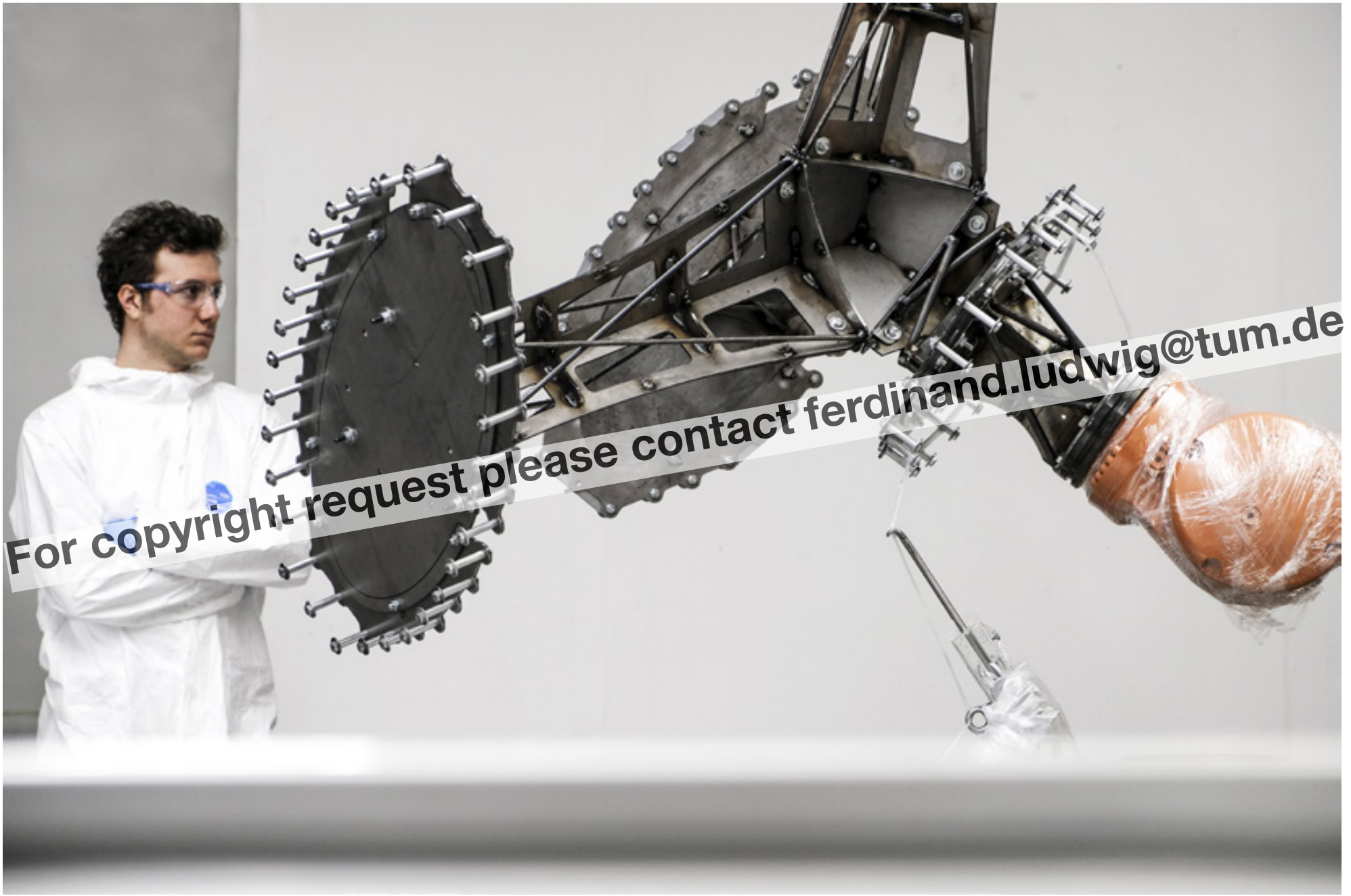
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0.20  
0.17  
0.15  
0.13  
0.10  
0.08  
0.06  
0.03  
0.01  
-0.02  
-0.38

Max :  
Min :



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production 3